

Flint Hills Resources, LP Work Order Details

Org: FHR-PE Site: PE

WO #: PE85875

WO Long Desc: Drain Refrigerant

WO Desc: monomer leaking out of east end of heat exchanger

Parent WO#: WO Priority: 2

Drain / remove monomer from location.

Disconnect Electrical devices from exchanger. (Temperature transmitter & pressure switch)

Disconnect inlet & outlet piping to allow exchanger & frame to be lifted off anchor bolts and placed to allow access to tube bundle.

Support / suspend HX head to allow disconnection from exchanger.

Unbolt head from HX exchanger body and remove nuts from anchor bolts.

Lift and place bundle and frame to the south near the rail to allow access and removal of the tube bundle.

Remove bundle, replace gaskets (inner & outer) & reinstall bundle in exchanger shell

Torque head bolts to 120 ft lbs in a 3 step process. Go 40 ft lbs then 80 then 120. Use a star pattern.

Return exchanger & frame back to original location & reconnect head.

Reconnect inlet & outlet piping.

Reconnect electrical devises.

.

Location: I-HX-1200 RECIRCULATION CHILLER 2 HEAT EXCHANGER

Asset: 1347485 RECIRCULATION CHILLER 2 HEAT EXCHANGER Asset Service:

Entry Date: 3/14/2019 WO Status: COMP Action Code: LDAR Project #:

Originator: DAVID SCOTT Status Date: 7/8/2019 Work Type: CM Failure Class: SHTBEXCH

Job Plan: Planned Start: Actual Start: 3/19/2019 Review Date:

PM/Bundle: Planned Completion: 4/9/2019 Actual Completion: 4/3/2019

Plant Information

RC: PERC01 Planner: WILLIAM STONEKING MOC#:
When Code: RT Lead Craft: MECH MOC Status:
P&ID: MOC Desc:

SIR/EIS Required:

LDAR

Tag #: 1st Attempt Made: LDAR Planning Notes:
Leak Type: 1st Attempt Was: LDAR Additional Notes:

Size: 1st Attempt Due By: 3/19/2019

Leak Location: After 1st Attempt PPM:

Location Orientation: Final Due By: 3/29/2019



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Work Plan Materials					
Task ID	Stock No.	Noun Qualifier	Due Date	Unit of measure	Quantity Req.
		13-1/2¿ x 15-1/2¿ x 1/8¿ Grafoil GHR Ring Gasket	3/27/2019 10:28:04 AM	EA	2
		13-1/2¿ x 19¿ x 1/8¿ Grafoil GHR with ½¿ and ¾¿ ribs per customer picture, With 12 يُ ¾¿ bh on a 16-1/2¿ bc, cross ribs centered and other ribs 2-3/4¿ off center	3/27/2019 10:30:04 AM	EA	2

ork Actuals Material	s					
Task ID	Stock No.	Noun Qualifier	PO	PO Line Num	Quantity	
		13-1/2¿ x 15-1/2¿ x 1/8¿ Grafoil GHR Ring Gasket			2	
	706227	TEFLON TAPE, 3/4", P/N GTTF 520.			1	
	400017	VALVE, BALL, APL, SS, THRD, 3/4"			2	
		13-1/2ز x 19ز x 1/8ز Grafoil GHR with ½ز and ½ز ribs per customer picture, With 12 ز ¾ز bh on a 16-1/2ز bc, cross ribs centered and other ribs 2-3/4ز off			2	
		center				

Services Plans						
Line Type	Service	Description	Quantity	Unit Cost	Line Cost	
SERVICE		Materials and labor to remove all refrigerant, replace piping, filters, & valves on 1200 chiller	0	\$0.00	\$12,386.00	

Services Actu	als			
Line Type	Voucher	Service	Description	Line Cost
FREIGHT	PEV109290	FRT	Shipping Amount	\$75.54
TAX	PEV109290	ST	SALES TAX	\$0.44
TAX	PEV109290	ST	SALES TAX	\$(0.44)
SERVICE	PEV110922		Materials and labor to remove all refrigerant, replace piping, filters, & valves on 1200 chiller	\$12,386.00



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WO #: PE85875

Completed by Emp #:		Signature:
WILLIAM STONEKING	04/24/2019	REPLACED REFRIGERANT
WILLIAM STONEKING	04/10/2019	HX Head leaking N2 on refrigerant side . Slight leak between 10:00 & 2:00 o' clock. Tighten head bolts a little more to stop leakage.
RICH WILLIAMS	04/03/2019	Exchanger reinstalled. electrically connected. need contractor to finish.
RICH WILLIAMS	03/25/2019	removed power and disconnected temp transmitter and pressure switch
RICH WILLIAMS	03/14/2019	removed the insulation to identify the location of the leak. need to plan the gasket replacement and inspect the rest of the system.
Work Order Notes		

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PE	RU, IL 61354							/				
Genera	ator's Phone:	<u>(815) 224</u>	-1525			***************************************	· · · · · · · · · · · · · · · · · · ·	U.S. EPA ID				
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7. Tran	nsporter 2 Company Name							U.S. EPA ID I	Number			
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Form Approved. OMB No. 2050-0039

	ONIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number ILD 087 154 555	22. Page 2	23. Mar	ifest Tracking Num	nber 163	9 J	JK		
	24. Generator's Name								100	
Sales.	LINT HILLS RESOURCES,	PERU LLC			/					
	25. Transporter Company Name			U.S. EPA ID Number						
	26. Transporter Company Name			20.2	U.S. EPA ID N	Number				
	27a. 27b. U.S. DOT Description (including Proper Ship	poing Name, Hazard Class, ID Number	28. Conta	iners	29. Total	30. Unit 31. Waste Codes				
	HM and Packing Group (if any))		No.	Туре	Quantity	Wt./Vol.	31.\	Waste Code	es	
	X \$\text{\$05UN1760, Corrosive liquids}\$\$ Compounds, 8, PGIII, ERG	, n.o.s. Quaternary Ammonium 3 #154	001	DM	486	P	a to anoth	or other sections.	***	
-	X 06UN1325, Flammable solid PGIII, ERG #133	s, organic, n.o.s. (Styrene), 4.1,	002	DM	267	Р				
	97Non Hazardous, Non D.O.	Τ.	003	DM	1,200	Р				
GENERATOR -	08Non DOT Regulated		809	DM	2,700	e P				
- GENE	09NON DOT Regulated		500	DM	400	p P				
	ONON DOT REGULATED		601	DM DF	350	G P		Jär		
15	1 NON DOT Regulated		805	DM	1,750	ø	n in the second	waney a star		
	2Universal Waste – Used E	lectric Lamps	150	DF	100	Р				
	30 Niversal Waste - Used E	lectric Lamps	001	DF CF	50	Р				
	. 14Universal Waste – Used E	lectric Lamps	001	OF	30	Ρ.,				
7	32. Special Handling Instructions and Additional Information KOPE-FHR08N / Larostat 6. KOPE-FHR14H / Styrene Absorbents (No Free Liquids) 7. KOPE-FHR02N / Used Oil 8. KOPE-FHR07N / Oily Debris 9. KOPE-FHR08N / Purflo 835 10. KOPE-FHR10N / Sodium Metabisulfite 11. KOPE-FHR13N / Cooling Tower Absorbents 12. KOPE-FHR04U / niversal Waste 4R Fluorescent Tube 13. KOPE-FHR05U / Universal Waste 8R Fluorescent Tube 14. KOPE-FHR08U / Universal Waste HID Bulbs / Envirte of Illinois] [Beaver Oil] [H039] / [Envirte of Illinois] [Environmental Enterprises Inc] [H121] / [Envirte of Illinois] [Envirte of Illinois] 33. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name Signature Month Day									
TRANSF	34. TransporterAcknowledgment of Receipt of I Printed/Typed Name	34. Transporter Acknowledgment of Receipt of Materials								
DESIGNATED FACILITY	35. Discrepancy									
MAIE	36. Hazardous Waste Report Management Method Cod	[[[[[[[]]]]]]] [[[[[]]]] [[[]]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]] [[]				1				
	05 H141 06 H1	41 07 H141		08 H1	10	09	H1	10		
1216	10 H110 ,11 H1	10 12 H141		13 H1	1.0	12	H1	44		

